

536,535

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 June 2004 (10.06.2004)

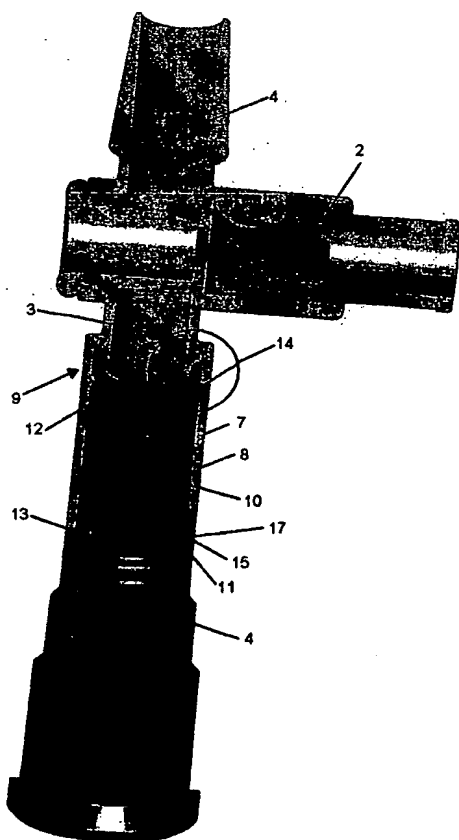
PCT

(10) International Publication Number
WO 2004/047909 A1

- (51) International Patent Classification⁷: **A61M 39/10**
// A61F 5/44
- (21) International Application Number:
PCT/DK2003/000809
- (22) International Filing Date:
26 November 2003 (26.11.2003)
- (25) Filing Language: Danish
- (26) Publication Language: English
- (30) Priority Data:
PA 2002 01823 26 November 2002 (26.11.2002) DK
- (71) Applicant (for all designated States except US):
UNIMEDICAL A/S [DK/DK]; Engmosen 1, DK-3540
Lyngby (DK).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **CHRISTENSEN, Bjarne, Lasse** [DK/DK]; Stormøllevej 88, DK-4600 Køge (DK). **HANSEN, Trygve, Kalf** [DK/DK]; Sorøvej 22A, DK-4250 Fuglebjerg (DK).
- (74) Agent: **ZACCO DENMARK A/S**; Hans Bekkevolds Alle 7, DK-2900 Hellerup (DK).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT (utility model), PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: A CONNECTING PIECE FOR A TUBING



(57) Abstract: The invention relates to a connecting piece (1) for a tubing (2) comprising a first unit (3) and a second unit (4), said first unit (3) comprising a first connecting element (5) for a tubing element (6) and a second connecting part (7) for the second unit (4), said second connecting element (7) comprising a tubular female part (8) for engagement with the second unit (4) and first sealing elements (9), and said second unit (4) comprising a tubular male part (10) with a collar (11) and second sealing elements (12) for cooperating with the first sealing elements (9), said first and second units (4) further comprising separator elements (13). The invention is characterized in that the sealing elements comprise a locking device (14); and that the separator elements (13) and the locking device are arranged at a distance in relation to each other. Good locking is accomplished as well as sealing of the joint without a risk of leakage and unintended separation of the two connecting parts; the lock, which is hence internal and protected, ensuring good engagement, while simultaneously the separator elements operate independently of both lock and sealing. Moreover, the sealing elements operate independently of direction and with little force for activation.

BEST AVAILABLE COPY

WO 2004/047909 A1



(84) **Designated States (regional):** ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.